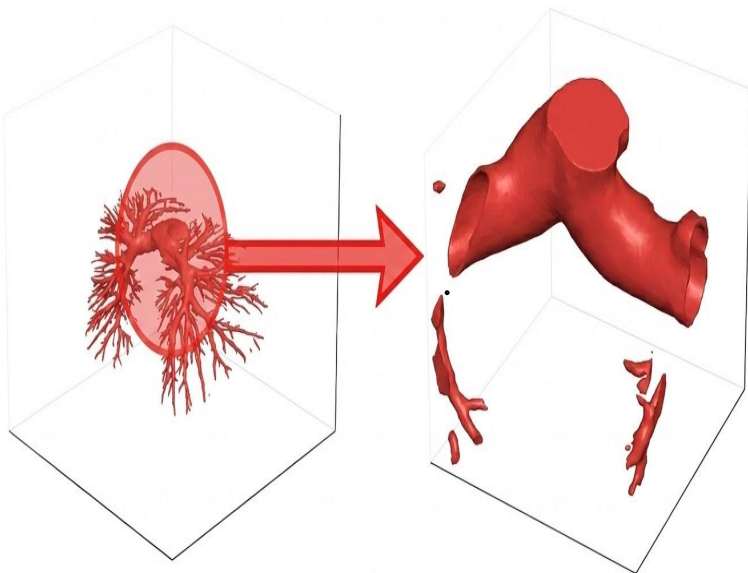


## INPUT

### Fragmented Volumetric Segmentation

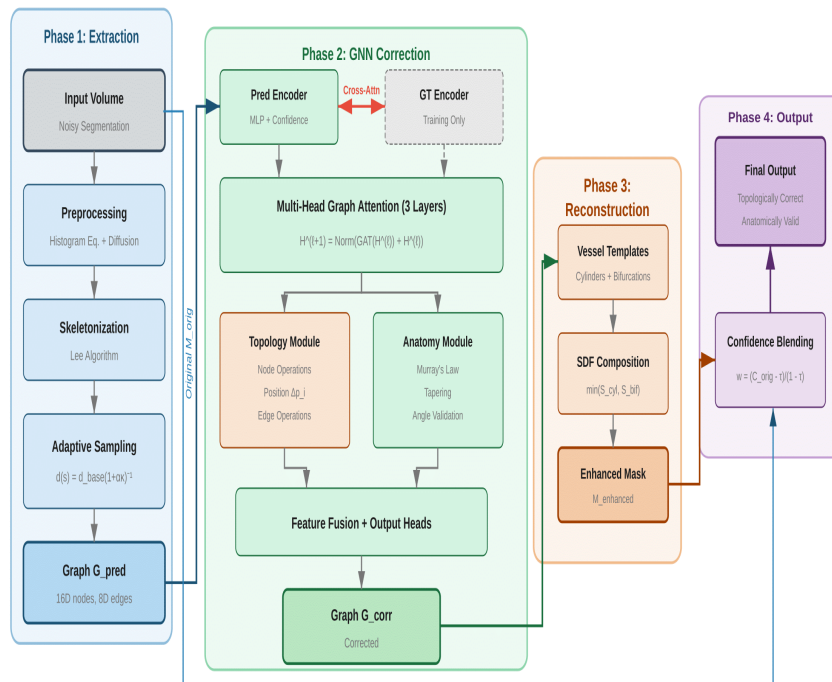


- High Dice, Broken Topology
- 400+ Disconnected Components

## METHOD

### Graph-to-Graph GNN Framework

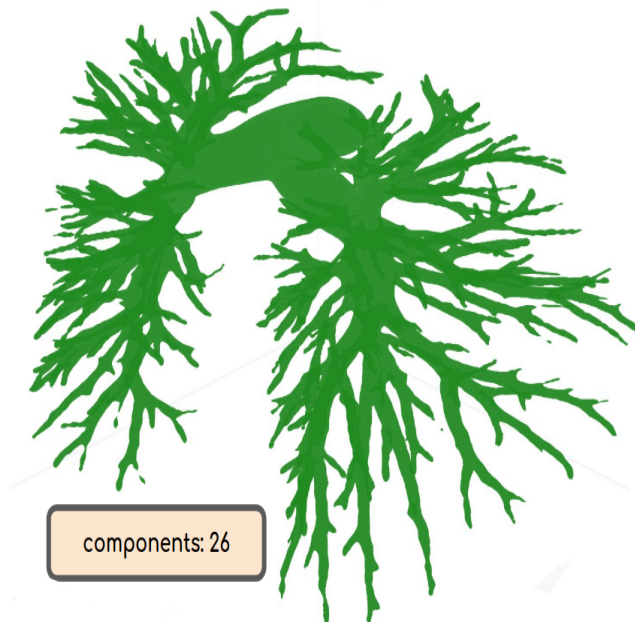
#### Graph-to-Graph Correction Framework Pipeline



- Dual-Module Correction
- Topology & Murray's Law

## OUTPUT

### Topologically & Anatomically Coherent Vessel Tree



components: 26

- 92% Component Reduction
- Physiologically Valid
- Fast Inference (<41s)